

20020618.ba v03_n353.bam.20020618

>From ???@??? Tue Jun 18 11:53:27 2002 -0500
Message-Id: <200206181653.g5IGrBFx025415@sco.theporch.com>
Date: Tue, 18 Jun 2002 11:52:37 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3353

BOATANCHORS Digest 3353

Topics covered in this issue include:

- 1) Standin' by my S-38E!
by "James B. Branch, MD" <cut2cure@earthlink.net>
- 2) Re: Command Set Transmitter Behavior
by David Stinson <arc5@ix.netcom.com>
- 3) Re: S-38, A, B, C, D
by Larry Bearse <lbearse@rcn.com>
- 4) AM Modulation meter
by RIlowite@aol.com
- 5) Re: Do you Have Any Projects on the Bench?
by Raymond Cote <rjcote@hawaii.rr.com>
- 6) NAVY RBD Receiver
by <wsno19@mindspring.com>
- 7) Factory wiring error on CV-1758 SSB Converter?
by "Dennis Gibbs" <R390A@Worldnet.att.net>
- 8) RE: Factory wiring error on CV-1758 SSB Converter?
by Don Reaves W5OR <w5or@comcast.net>
- 9) Re: BBC news/ electroplating/project
by Ned Ely <adcinfo@ghg.net>
- 10) Boonton 260A Q-meter problem
by "Michael Tallent" <mtallent@concentric.net>
- 11) Need 516F-2 and 30L-1 AC Cables
by "Gary Harmon" <gharmon@idworld.net>
- 12) Pop Quiz
by "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
- 13) Re: Pop Quiz
by David Hollander <n7rk@dancris.com>
- 14) Mivar Italian radio
by scb@hiwaay.net
- 15) Cute tube circuits seen recently
by "Hue Miller" <kargo_cult@msn.com>
- 16) RE: S-38, A, B, C, D
by "Edward Zeranski" <ezeran@concentric.net>
- 17) Re: Boonton 260A Q-meter problem
by Al Klase <skywaves@bw.webex.net>
- 18) Re: Cute tube circuits seen recently

by Arden Allen <gumbear@pacbell.net>
19) making noise
by Arden Allen <gumbear@pacbell.net>
20) RE: S-38, A, B, C, D
by "John K9UWA" <k9uwa@arrl.net>
21) Re: making noise
by Bob Roehrig <broehrig@aurora.edu>
22) Re: Pop Quiz
by third Eric <ejones@hiwaay.net>
23) Re: Pop Quiz
by Jack Harper <jharper@bsi2000.com>

To: Old Tube Radios <boatanchors@theporch.com>
CC:
From: "James B. Branch, MD" <cut2cure@earthlink.net>
Subject: Standin' by my S-38E!
Message-Id: <160602167.1706@webbox.com>
Mime-Version: 1.0
Content-Type: text/plain
Date: Sun, 16 Jun 2002 00:28:28 -0700

Not to be purposely contentious, but I bought a Halli S-38E,
recapped and aligned it and have found it to be a great little
set for casual SWL. On a scale of Yugo to Bentley, I'd say the
radio is about a Ford.

Message-ID: <3D0C9E6A.AE057A7F@ix.netcom.com>
Date: Sun, 16 Jun 2002 09:19:22 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Command Set Transmitter Behavior
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mac:
While an unbuffered MOPA rig will always pull somewhat
when you key them, it shouldn't be nearly that bad.
That's why it's best to use the selector relay to key
the transmitter rather than the various modification schemes.

Can you describe the modifications done to the transmitter?
What is your power supply configuration?
Have you tested it to see if it will hold voltage
under a 200 MA load?

Have you replaced any caps?
Have you cleaned the oxidation from the roller coil assembly
and relay contacts, if used?

73 DE Dave AB5S

Message-Id: <4.3.2.7.2.20020616111127.00c1d410@pop3.norton.antivirus>
Date: Sun, 16 Jun 2002 11:40:29 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Larry Bearse <lbearse@rcn.com>
Subject: Re: S-38, A, B, C, D
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Arden, I was taking the long way home from a party (I got lost) at 2am a couple of weeks ago and I passed a house with a huge pile of junk out by the street, just waiting for some collector to happen by. Nestled discreetly between an empty old wooden stereo carcass (rats!) and a broken in half toilet (I wonder what happened there?) was a little homeless S-38-EM. Its the newer one with miniature tubes and a wood grained metal cabinet and slide rule type dial. The thing is in pretty good shape cosmetically, but needs some internal work. Its somewhat functional, but the pot is very scratchy and the speaker sounds like it had Metallica playing through it at full volume for a week. Oh, and it had a for sale tag hanging off the tuning knob that said "shortwave radio \$10" I think I will leave the tag on it..... Ya know, what the hell, its only an S-38, but its radio. It must have been beckoning to my ale soaked brain, thats why I got took a wrong turn that night. I just wish that a R-388 would beckon to me like that. But a wish is only a wish.

By the way, I do have an original S-38 (no letters) in fair shape, and its a piece of crap too. The extra BFO tube doesn't really do much for it. I saw a horrible looking one at a local hamfest recently, the guy wanted 80 bucks for it!

.....Larry WA1LGQ

Date: Sun, 16 Jun 2002 14:52:01 -0400
From: RIlowite@aol.com
To: Old Tube Radios <boatanchors@theporch.com>
Cc: RIlowite@aol.com
Subject: AM Modulation meter
Message-ID: <754F68AC.4EA7F65D.0079A45B@aol.com>
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

I picked up at a flea market, a vintage modulation meter manufactured by General

Radio. This is the model 457, serial number 30. The unit uses two type 27 tubes and displays the percentage modulation on a 3 inch meter which is missing. One rf choke is open and the push switch for shunting the meter is missing also. All else seems there and the panel is fair but needs help. The unit fits in a very nice mahogany cabinet with a hinged lid. The filaments are run from a contained transformer but the "B" voltage is obtained from a 90 volt battery. This unit measures both positive and negative peaks and requires an RF feed at the input, from the transmitter or the IF output from a receiver. The input is adjusted by a pot but is untuned. I would love to have the manual for this baby or at least a photo of the meter face so I can restore the unit to near as new appearance and function as possible. Any one out there who can help?

Regards- Ralph (W2GKG) (E320-4matic)

Message-ID: <3D0CF55D.B034D1A0@hawaii.rr.com>
Date: Sun, 16 Jun 2002 10:30:21 -1000
From: Raymond Cote <rjcote@hawaii.rr.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Do you Have Any Projects on the Bench?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As John said in his closing line, "Enough radios around here needing overhaul to last me the rest of my life " , I resemble that remark. I am presently in Hawaii, am filling up 3 shipping containers with saved and "stored elsewhere" projects. When I retire I will move to my new home in Illinois, unpack and let my projects "breathe" Only then will I have a better idea on what to fix and what order to start. Of course the R-390A projects will have to take precedence. I have 2 non working, with the 10 turn dials in place of the bfo knob, these from Vietnam (actually from Bangkok) and 2 other variants (R-389 and an R-390-A with a slowly flaking front panel. After that, my 75S-3B will get an alignment, 3 or 4 Marine radios, linears and associated antenna couplers will be tested and modified for the Ham bands. In the Marine stuff I have a MacKay 3010 receiver that was in pretty good shape with a real dial tape in working order. That will only need

tuning and alignment. Capacitors will of course be "eyed" with suspicion being stored for so long.

I note on occasion that there are none (zero) swap meets to visit here, but that has not stopped me from collecting so much. I shudder to think when I get to Illinois and am in driving distance to so many places what I might find.<g>

Take care all, and surely enjoy reading the mail.

John Kolb wrote:

> On Thu, 6 Jun 2002, Tarheel6 wrote:

>

> > Hi Gary...

> > Coupla things: After reading the other emails about how cluttered up with
> > radio's their benches are, I can now quit the intensive psycho-therapy I've
> > been going thru for the last 2 years to rid myself of the guilt I've felt
> > from all the nearly done, half-done, just-started, about-to-be-started, and
> > thinking-about-getting-started projects that stare at me every day and shout
> > at me as I rush by hoping that they won't notice that I didn't stop to work
> > on THEIR project. Whew what a relief. There are A LOT of people out
> > there who are in the same shape I'm in. So ... pretty much I'm concluding
> > that I'm normal. That messy workbenches full of unfinished projects are
> > NORMAL. This is great!

>

> Tom said it well - glad I'm not the only one can't even see the
> bency from the varity of started projects and unsorted parts.

>

> Mostly working on test equipment lately, repaired several Tek
> scopes, and just completed a Knight R and C bridge - beautiful
> 6E5 magic eye tube in it, that's probably worth more than
> the completed bridge. These would seem to be a good source
> of magic eye tubes for restoring old radios, as most RC
> bridges would have very few hours of operation on them.

>

> Completed a test set for mechanical filters.

>

> Enough radios around here needing overhaul to last me the
> rest of my life - R-390A, R-648/ARR41, HQ-180A, 51J-3, R-1051,
> R-1449/WLR-6, URC-35A.

>

> John

Date: Sun, 16 Jun 2002 18:48:24 -0400

From: <wsno19@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: NAVY RBD Receiver
Message-ID: <Springmail.0994.1024267704.0.06374800@webmail.atl.earthlink.net>

I am considering the possible trade/or\$\$\$ for a cherry RBD receiver that I have been asked about in the past. I have seen 3-4 in my collecting/trading career....most in sub-standard cndx. This one is nice, in working cndx and will delight the owner....The serial number is not #1 but close!!!Pics not available today...but soon.

As you may remember...the RBD and TCX were "companions" on early PT boats..till the TCS became prolific.

As this board is not !@#-Bay, I will leave it to individuals to contact me.

I will say that temptation come in the form of estoeric items to tickle my palate.!!

From: "Dennis Gibbs" <R390A@Worldnet.att.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Factory wiring error on CV-1758 SSB Converter?
Date: Sun, 16 Jun 2002 20:19:21 -0400
Message-ID: <NEBBJNJEDLPJBFPDMAGAOEFKCMMA.R390A@Worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello all,

Several months ago, I bought a CV-1758 SSB converter, and brought it home. I hooked it up to check it out, grounding the unit (as I always do when checking unknown equipment). When I plugged in the power, it immediately blew the circuit breaker on my house fuse panel. I tried it once again, same result. I put the CV-1758 on the project pile where it sat until now.

Today, (Father's Day!) my wife took care of the kids and let me indulge myself in the shack. I decided to see what the problem was with the CV-1758. I made a rather startling discovery: According to the schematic, the hot side of the AC line (which should go directly to the internal fuse holder) was wired to ground! The ground was wired to the fuse holder. This certainly explains why it blew the circuit breaker when plugging it in.

I figured that someone tampered with the wiring prior to my possession of this unit. But a close inspection with a bright light and a magnifying

glass reveals that it came wired from the factory this way! It's easy to tell that the wiring has not been disturbed since leaving the factory -- TMC used some sort of blue ink which they dabbed on the solder joints (I guess as part of a QA inspection). I have checked and re-checked, as I assumed I must be wrong, but there's no question in my mind, it came wired from the factory this way!

I find it rather hard to believe after all these years that such a blatant (and dangerous) error was not corrected by someone, but it has not. Anyone else have a problem like this on a CV-1758 (MSR-9) SSB adapter?

Dennis

Date: Sun, 16 Jun 2002 21:21:58 -0500
From: Don Reaves W5OR <w5or@comcast.net>
Subject: RE: Factory wiring error on CV-1758 SSB Converter?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <GDEHIALJFKJECMCBANPPEELCCOAA.w5or@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Dennis,

Watch out for that 3 prong round military power connector. They have pins labeled A,B, and C. It is not uncommon for B and C to be reversed in their function, between hot and ground. The TMC CA-385 power cord would be a short on one of my CV-591 converters and work properly on another.

My MSR-9 manual says B goes to the fuse, C is ground.

Don Reaves
W5OR

Message-ID: <3D0D6459.A7FFD3A7@ghg.net>
Date: Sun, 16 Jun 2002 23:23:53 -0500
From: Ned Ely <adcinfo@ghg.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BBC news/ electroplating/project
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi group,

I do some plating of the components I make at work and my experience is to use low current with agitation for a long time.

For some of my restoration projects I have used some of the artist's metallic tinted acrylic paints. These seem to hold-up well.

Message-ID: <00fb01c21673\$dd467eb0\$7b00558b@bx133>

From: "Michael Tallent" <mtallent@concentric.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Boonton 260A Q-meter problem

Date: Mon, 17 Jun 2002 22:57:19 -0400

MIME-Version: 1.0

Content-Type: text/plain;
charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Hello:

I have been working on a 260A Q-meter. The problem is the generator is dead on several bands.

I fixed the low frequency problem by finding the fine wires broken by the heavy tubing covering the wires.

Now I have a problem with the highest frequency band 23-50 MHz, it won't work. I have taken out the coil drum and cleaned all the brass pins, checked the inductors for continuity and checked the small tubular caps, everything measures fine. I have tried 3 new 5763 tubes. I used stiff paper with de-oxit to clean the split spring contacts on the oscillator chassis.

I did notice the .1uf B+ bypass cap was cracked, so I changed it.

Also I notice the the next band down, 10-23 MHz stops oscillating below 15 MHz, all other bands work fine.

Anyone know of problems with these meters.

Mike Tallent W6MXV in KY

From: "Gary Harmon" <gharmon@idworld.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Need 516F-2 and 30L-1 AC Cables

Date: Mon, 17 Jun 2002 21:58:03 -0500

Message-ID: <LKBBJFJHLNHAIBLNCHMEGEFFLIAA.gharmon@idworld.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Anyone have a source for original looking cables?

Thanks, gary

=====
Gary H. Harmon, Jr.
K5JWK
6302 Robin Forest
San Antonio, TX 78239
(210) 657-1549 <Home>
(210) 884-6926 <Sprint>
=====

Date: Tue, 18 Jun 2002 00:06:49 -0400 (EDT)
From: "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
Message-Id: <200206180406.AAA23232@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Pop Quiz

Which recent movie showed:

- McElroy TG34 code practice set
- NC-183 code-practice RX
- ERA 110 code-practice Von Neuman stored program computer
- Tectronix 511 green-worm display to service above
- Zenith TO 1000D to set all the above to music

I know this isn't a BA mainstream question on a source of Furschluginger wave-spring flux capacitor mount washers for a Benzene 60 Roumanian transciever, but had to post it anyway

Message-ID: <3D0EB495.CF91D4AC@dancris.com>
Date: Mon, 17 Jun 2002 21:18:26 -0700
From: David Hollander <n7rk@dancris.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Pop Quiz
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"

Content-Transfer-Encoding: 7bit

The movie Marty is talking about is "A Beautiful Mind"

There was also an S-38 type of radio sitting next to the NC-183 (I thought it was an NC-173). I found it pretty funny that the CIA or whoever was using an S-38. I made these comments to my girlfriend and she told me to just watch the movie!

The Transoceanic was way to new for the scene it was in also. that scene was supposed to be 1956-57 and the T0 was from the mid 60's.

Dave N7RK

--

Dave N7RK <http://members.dancris.com/~n7rk>
Phoenix, Arizona *DXCC Honor Roll* *WAZ#23 - 75 Meter SSB*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor Collector Extraordinaire preferring Hallicrafters, National and what ever else looks interesting!

From: scb@hiwaay.net
To: Old Tube Radios <boatanchors@theporch.com>
Date: Mon, 17 Jun 2002 23:47:00 -0500
MIME-Version: 1.0
Subject: Mivar Italian radio
Message-ID: <3D0E74F4.14457.3507692@localhost>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Greetings;

Picked up a couple of interesting sets at a tailgate meet last week. Aside from an early GE pinch-top xistor portable, I got cheap (\$5) a dead & disassembled Mivar Italian tube Euro-tabletop tube multiband radio with age ruined e'lytic dated March '66. Radio otherwise looked new inside & out with no electron staining of the tubes (Philips Miniwatt), indicating the problem had existed since sometime right after the set sold new. Dead on all bands but shot/gain noise on all, increases with antenna connection. Tech selling it gave up. That evening I found a small solder ball shorting the tuning cap osc stator vane wings of the AM & FM sections together, it roared to life when the ball was flicked out with a toothpick.

Anyone know anything abt Mivar? Never heard of them myself. Bad e'lytic was also Mivar, not Ducati as expected. Oddly not a single Ducati cap

evident. Mivar may have made many of the component parts. Definitely different from German or American in details of front-end component design. Steve Bringhurst.

From: "Hue Miller" <kargo_cult@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Cute tube circuits seen recently
Date: Tue, 18 Jun 2002 01:28:55 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Message-ID: <0E124SGAxAXVT10Nd0B0003163c@hotmail.com>

1. a "Diode Radio" project using a 25Z5 (no plate voltage) - and the instructions say the filament must be cranked down to about 5 volts for it to work. (I don't quite get this.)
2. 2-valve shortwave regen "Emergency Radio" with 9 volts on B+, using space charge circuit, and 2 x 6 volt pentodes with 3.8 volts on filaments, or else it also will not work right.
3. Oscillator circuit using 6H6.
Uses -1.5 bias on two plates wired together, this forms the grid of a Hartley oscillator..... and +250 volts to the tube shield. Yes, tube shield, which is the new "plate". Sez amplification factor =4 to 7. This is not a UL-approved circuit. Thanx to SWC magazine, August 1937, for this bizarre circuit. Convinces me that the hamfest display circuit, an oscillator using a grid and plate before a plug-in home space heater, is for real and not a hoax.
Regards, Hue Miller

From: "Edward Zeranski" <ezeran@concentric.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: S-38, A, B, C, D
Date: Tue, 18 Jun 2002 05:41:48 -0700
Message-ID: <FHEBKNEBHGNPDPLBMCNEKEJGCDA.ezeran@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

: Old Tube Radios
Subject: S-38, A, B, C, D

Hallifiles;

I just finished recapping (except the micas) a Hallicrafters S-38

.....

Cheated by Hallicrafters! The "A" model is a cheapified radio.

Hallicrafters ripped

out the BFO tube, removed the BFO tune control,

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

A few years ago I picked up what I thought was a '38 but with no BFO etc. it turned out to be a 5R10. Over the years I've worked on quite a few s38s, 120s and the renamed 120 (500 something) for friends and neighbors. It seems everyone had one of the little sets! Most show up as "Uncle ****'s shortwave we found in his garage ." I sure wish I could find the decals for the sets, maybe there is a software for making them. While on the Halli and decal subject...I need them for a BC-610I too....that covers both ends of the Halli scale =8^)

EdZ

Message-ID: <3D0F2CD0.1E1E1633@bw.webex.net>

Date: Tue, 18 Jun 2002 08:51:28 -0400

From: Al Klase <skywaves@bw.webex.net>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

CC: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Boonton 260A Q-meter problem

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Michael,

I have no specific 260A experience. Wild guess: Check the value of the oscillator grid resistor.

Good luck,

Al

Michael Tallent wrote:

>

> Also I notice the the next band down, 10-23 MHz stops oscillating below 15

> MHz, all other bands work fine.

>

--

Al Klase - N3FRQ
skywaves@bw.webex.net
Flemington, NJ 08822
Web Page: <http://www.webex.net/~skywaves/home.htm>

Date: Tue, 18 Jun 2002 06:46:55 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: Cute tube circuits seen recently
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0GXW00IVVM9PEX@mta6.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hue;

> 1. a "Diode Radio" project using a 25Z5 (no plate voltage) -
> and the instructions say the filament must be cranked down to
> about 5 volts for it to work. (I don't quite get this.)
>
> 2. 2-valve shortwave regen "Emergency Radio" with 9 volts on
> B+, using space charge circuit, and 2 x 6 volt pentodes with
> 3.8 volts on filaments, or else it also will not work right.

Reducing the heater voltage reduces the cathode temperature. Less electrons are launched to staff a "space charge" electron cloud. The electron cloud forms a virtual cathode with a negative bias applied. Same as if a positive voltage is applied to the plate, current flows. It's called "contact bias" current (probably a misnomer from early cave laboratories). The plate resistance of the the conducting diode loads the signal circuit, quashing the meager signal, therefore detection efficiency is not good. If you can reduce the contact current, therefore increasing plate resistance so less signal power is wasted, and still have electron emission, you will find a "sweet spot" of maximum detection efficiency. Or so it seems to me.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Date: Tue, 18 Jun 2002 07:21:48 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: making noise
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0GXW00ICSNVNF0@mta6.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

I finally got around to aligning the S-38 I recently reported on. Before I started though, I thought about the difficulty I would have aligning the highest frequency band. At 28 MHz there is practically no isolation between the oscillator and antenna circuits with a pentagrid converter. Pentagrid converters work well up 10 Mhz and then things begin to deteriorate. Tuning the antenna coil at 28 Mhz also tunes the oscillator. You get a Mexican jumping bean effect. I've struggled with using sweep alignment so all I would have to do is tune the antenna coil for maximum blip height and not worry about the oscillator being pulled, as evidenced by the blip traveling sideways while tuning for max. Hearing a hissing sound in my ears, the effect of recalling those times when the fun goes out of working on a hobby project, I got the idea of using a broadband noise source to "sweep" the spectrum. Budgetarywise, it was plausible. Let's see, one zener diode, a resistor, a coupling capacitor, and something to mount this incredibly complex circuit in complete with BNC connectors. It wasn't long before my "warehouse" coughed up the ingredients.

Fooling around for about an hour I discovered an approach that works well. Passing about 500 micoramps through a 1N4737, 6.8 volt zener makes lots of noise. I put a 47K resistor in series with the zener with a .01uF cap to the output connector. I powered the new noise source with a DC lab supply and the noise level is easily controlled from zero to nearly overloading the receiver simply by adusting the supply voltage from a few to about 30 volts. I feed the noise to an antenna simulator (that came with my URM-25D signal generator) which is connected to the receiver under test. Switching between the signal generator and noise source to align the oscillator and antenna circuit is much easier than using all the junque necessary for a sweep alignment setup.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

From: "John K9UWA" <k9uwa@arrl.net>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 18 Jun 2002 09:55:11 -0500
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: RE: S-38, A, B, C, D
CC: "Edward Zeranski" <ezeran@concentric.net>
Message-Id: <20020618144450.CUEN25309.sccmmhc02.mchsi.com@k9uwa>

From: "Edward Zeranski" <ezeran@concentric.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: S-38, A, B, C, D

> I sure wish I could find the

> decals for the sets, maybe there is a software for making them. While on
> the Halli and decal subject...I need them for a BC-610I too....that covers
> both ends of the Halli scale =8^)

> EdZ

Yo Ed....take a look at this web site.....

<http://members.aol.com/rockseaent/index.html>

Thats Mike Tobin of Rock Sea Enterprises.....we use him a lot in Antique Radios
for Dials and Decals....below I copied from his Decal RTF file.....

Hallicrafters

HL1	5 decals	\$5.00	As shown, 2.25" wide, White or black.
HL2	5 decals	\$9.00	As shown, 2.25" wide, Light Green.
HL-38	2 sets	\$15.00	Decal set for replacing all front panel words on model S-38 and S-38B.

Mike will make stuff he doesn't have for the Wooden Radio crowd.....as long as
you have excellent digital pictures to start with....and are not in a
hurry....usually
about 6monthsno charge for set up fees....as that gives him another one to
put in his file to sell to other people.....
Anyway....no connection to him other than satisfied customer.....

John k9uwa

John Goller, K9UWA & Jean Goller, N9PXF

Antique Radio Restorations

k9uwa@arrl.net

Visit our Web Site at:

<http://www.JohnJeanAntiqueRadio.com>

4836 Ranch Road

Leo, IN 46765

USA

1-260-637-6426

Date: Tue, 18 Jun 2002 10:35:23 -0500 (CDT)

From: Bob Roehrig <broehrig@aurora.edu>

To: Old Tube Radios <boatanchors@theporch.com>

cc: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: making noise

Message-ID: <Pine.0SF.4.43.0206181032330.81041-100000@mail.aurora.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 18 Jun 2002, Arden Allen wrote:

> Switching between the signal generator and noise source to align the
> oscillator and antenna circuit is much easier than using all the junk
> necessary for a sweep alignment setup.

A simple noise gen can be a handy thing. Only problem might be aligning
the set to the image freq.

One way I align oscillator stages is to connect my counter to the vertical
output of my scope, using the scope as an amplifier. Then place the scope
probe in the vicinity of the osc circuit - but not so close to pull it off
freq. Simple read the osc on the counter.

73 Bob Roehrig K9EUI
Aurora University Telecom/IS dept.
630-844-4898 broehrig@aurora.edu

Date: Tue, 18 Jun 2002 11:13:54 -0500 (CDT)
Message-Id: <v03007803b934c2757dc4@[216.180.65.120]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: third Eric <ejones@hiwaay.net>
Subject: Re: Pop Quiz

de N4TGC Eric

Reading what little info I have on John Nash, and seeing the movie and a
recent PBS "documentary" does not reveal which "intelligence" group and for
what period Nash worked. (I assume WW2 and OSS or Army intelligence.) And
did they oust him because he was a little "zany", or did the work-related
stress overload him and precipitate it? Enquiring minds go mad more
quickly ... I am amazed at the list of equipment: I must have been actually
watching the movie, as I didn't notice any of it! (I was concentrating on
whether they would reveal Nash's code-breaking work, but they denied it
instead ...) e

Message-Id: <4.1.20020618105001.0384be78@mail.bsi2000.com>
Date: Tue, 18 Jun 2002 10:56:42 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Jack Harper <jharper@bsi2000.com>
Subject: Re: Pop Quiz
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:13 6/18/2002 -0500, Eric N4TGC wrote:

<snip>

>Reading what little info I have on John Nash, and seeing the movie and a
>recent PBS "documentary" does not reveal which "intelligence" group and for
>what period Nash worked. (I assume WW2 and OSS or Army intelligence.) And
>did they oust him because he was a little "zany", or did the work-related
>stress overload him and precipitate it?

<snip>

According to the interesting biography on John Nash, he worked for the RAND Corporation in Santa Monica in the mid to late fifties and lost his clearance for homosexual activity -- he was arrested for, IIRC, lewd conduct or some such in a men's room etc... This was Very Bad News for people with security clearances during the fifties.

The movie almost completely sidestepped these things.

Regards to the List

Jack, W0YJ (Friend to all things Hammarlund)

Jack Harper
303.231.9095

BSI2000, Inc.
Lakewood, Colorado USA

<http://www.bsi2000.com> (Last Update: 020430)

End of BOATANCHORS Digest 3353
